Correction sheet

To the dissertation "Development of luminescent probe and nanoparticle-based analytical tools for the selective recognition and quantitation of biomolecules"

Ph.D. thesis

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2022

to the Ph.D. thesis of Ahmed Marwa Aly Ahmed Aly „Development of luminescent probe and nanoparticle-based analytical tools for the selective recognition and quantitation of biomolecules"

1.) corrected Figure 6. on page 33

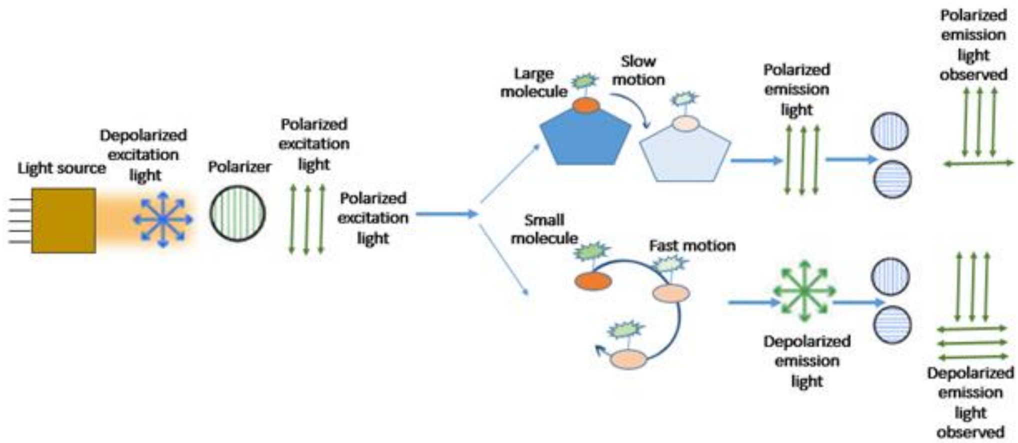

Figure 6: Explanation of the FPIA principle.

2.) corrected sentence on page 90

Below pH≈3.8 the acrylic acid moieties are fully protonated, therefore they cannot provide any interaction point for the lysozyme and the binding is indeed very low. Increasing the pH, the acrylic acid groups start to **deprotonate** and provide more and more negative charges to bind the positively charged lysozyme. Above pH≈7.8 they are fully deprotonated and offer maximum binding capacity.